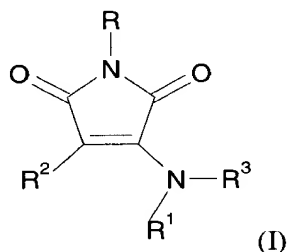


ABSTRACT OF THE DISCLOSURE

A method for the treatment of conditions associated with a need for inhibition of GSK-3, such as diabetes, dementias such as Alzheimer's disease and manic depression which method comprises the administration of a pharmaceutically effective, non-toxic amount of a compound of formula (I):



or a pharmaceutically acceptable derivative thereof, wherein:

R is hydrogen, alkyl, aryl, or aralkyl;

R¹ is hydrogen, alkyl, aralkyl, hydroxyalkyl or alkoxyalkyl;

R² is substituted or unsubstituted aryl or substituted or unsubstituted heterocyclyl;

R³ is hydrogen, substituted or unsubstituted alkyl, cycloalkyl, alkoxyalkyl, substituted or unsubstituted aryl, substituted or unsubstituted heterocyclyl or aralkyl wherein the aryl moiety is substituted or unsubstituted; or,

R¹ and R³ together with the nitrogen to which they are attached form a single or fused, optionally substituted, saturated or unsaturated heterocyclic ring;

to a human or non-human mammal in need thereof, and compounds of formula I.

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